

Vocabulary

Worksheet 21

Control and Sensing

Choose the term from the following list that best completes each statement. Write the term in the space provided.

cochlea	hormones	neurons	sensory neuron
eardrum	iris	pupil	synapse
endocrine glands	motor neuron	retina	

1. The parts of your nervous system are all made up of cells called _____
2. Axons release chemicals so a nerve impulse can be carried across a _____
3. The part of your eye that gets larger as you move from a bright room into a dark room is the _____
4. The thin membrane in your ear that vibrates as it is struck by sound waves is the _____
5. The part of the eye that lines the back and sides of the inner eye is called the _____
6. Fibers that cause muscles to contract are called _____
7. The colored part of your eye that controls how much light can enter it is called the _____
8. The type of fibers that carry information from your eyes to your brain is called _____
9. Chemicals made by the endocrine glands are called _____
10. A fluid-filled structure in the inner ear where vibrations are converted into nerve impulses is called the _____
11. The parts of your body that release chemicals directly into your bloodstream are called _____

Review

Worksheet 21.1

Part A Review

1. What body parts form the nervous system?

2. What are the functions of the brain?

3. What are the functions of the spinal nerves and spinal cord?

4. Describe the path of an impulse from one neuron to the next.

5. What are the three main parts of the brain?

Part B Skills Development

Infer

1. A person suffering a head injury forgets how to speak. Which part of the brain do you think was affected by the injury? Explain why.

2. Back injuries can be very serious. In fact, some back injuries can cause people to become paralyzed, or unable to move. Why do you think a back injury could make you unable to move your foot or your fingers?

Review

Worksheet 21.2

Part A Review

1. What is the function of a sensory receptor?

2. Describe the three main structures of the eye and their functions.

3. Describe how the parts of the ear are affected by sound waves.

4. How is taste related to smell?

5. Which receptors are closest to your skin's surface?

Part B Skills Development

Reason by analogy

Complete Table 1 by writing in the part of the eye that performs a function similar to the ones performed by the camera parts.

Table 1 The Camera and the Eye

Camera Part	Eye Part
Lens (focuses image)	
Lens cap (protects the lens)	
Diaphragm (opening that adjusts to let more or less light enter)	
Film (records image)	

Enrich

Worksheet 21.1

The Human Brain

Different areas of the brain control specific functions.

Study the diagram of the brain in Figure 1. Use the information in Figure 1 to decide which part of the brain controls each of the activities listed. Write the part of the brain involved in each activity on the line provided.

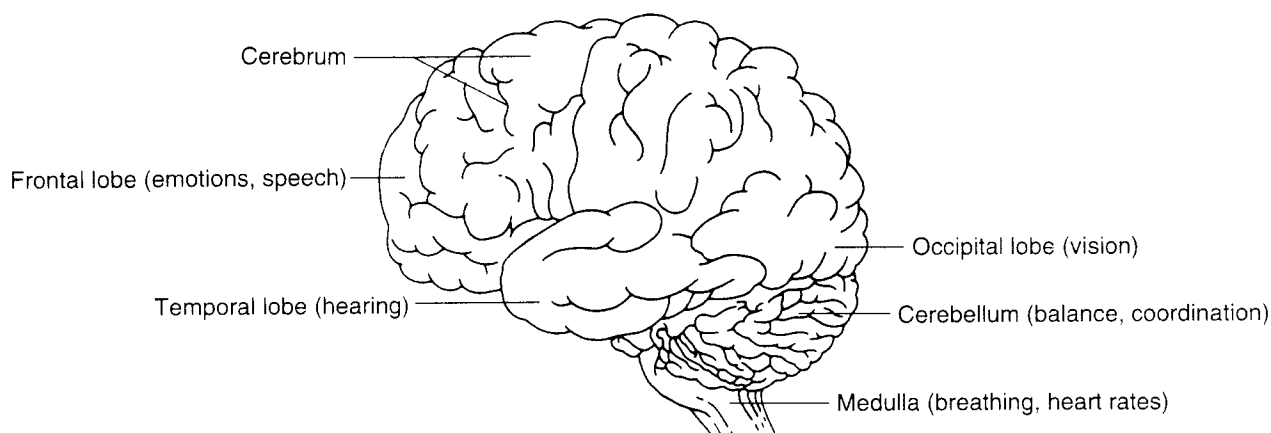


Figure 1 The Human Brain

Activity	Part of Brain
1. Feeling happy because you spent time with a good friend	_____
2. Watching a movie	_____
3. Listening to a tape of your favorite band	_____
4. Riding a bicycle	_____
5. Telling a joke	_____
6. Being out of breath from running	_____
7. Performing a dance routine	_____
8. Reciting a poem	_____
9. Having a rapid pulse	_____
10. Noticing the bright yellow feathers on a finch	_____